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THE
ANNUAL ANNOUNCEMENT
OF THE
DEPARTMENT OF
MEDICINE AND SURGERY
OF THE
UNIVERSITY OF MICHIGAN
FOR
1880-81.

ANN ARBOR:
PUBLISHED BY THE UNIVERSITY.
1880.



ANN ARBOR PRINTING AND PUBLISHING COMPANY.

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ANNOUNCEMENT.

I. IMPROVED AND EXTENDED COURSE OF INSTRUCTION.

Within the last three years important changes have been made in the course of instruction in the College of Medicine and Surgery.

The course of Instruction now comprises *three* collegiate years of *nine months* each. Students who matriculated prior to 1880 will, however, be allowed to graduate upon the conditions which were in force at the time of their matriculation.

The college year begins October 1st, and ends in the last week of June. It is divided into two semesters to correspond with the arrangement in the Literary Department.

In this extended Course the studies are arranged so that they may be pursued in the following order :

FIRST YEAR.—Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics.

SECOND YEAR.—Continuation of Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics; with Pathology, Medical Chemistry and Clinical Medicine and Surgery.

At the end of the second year final examinations take place in Chemistry, Anatomy, Physiology, Materia Medica and Therapeutics.

THIRD YEAR.—Practice of Medicine, Surgery, Obstetrics and the Diseases of Women and Children, Ophthalmology and Otology, with Clinical Medicine and Surgery.

The above list will be understood to include all the special studies which appertain to, and form an essential part of the general subjects enumerated. Such are: Histology—Physiological and Pathological; Laboratory work in Medical Chem-

istry in Microscopy and in Electro-Therapeutics; Qualitative, Physiological and Pathological Analyses; Toxicology; Physical Diagnosis, etc.

Students who have studied medicine elsewhere at least one year, may be admitted on examination to an advanced position in the course, and may take such studies as they are able to pursue; but no such student can be admitted to a final examination who does not furnish evidence of having studied medicine three years, including the time spent in college, and who has not attended all the lectures as required in the Schedule. This course cannot be accomplished in less than four semesters of nineteen and one-half weeks each, and only in exceptional cases, by special permission after examination, in less than three college years. Courses of lectures in other respectable Medical Colleges are, however, recognized.

Students taking by *permission* the first year all the lectures of which duplicates are required, and a suitable number of those required but once, may, by permission of the Faculty, after examination, be allowed to pursue their studies with a competent preceptor out of the college during their second year; and by completing the full college course required by strict attendance during the full third year, may present themselves for examination for the degree at the end of that year.

The final examinations will be conducted, in part at least, in writing. Written examinations will also be held in the closing week of each semester and the student may be called upon to write upon some theme assigned by the instructor or selected by himself, the essay, if required, to be defended before the class. In consequence of the prominence given to written examinations through the Course, no graduating thesis will be required.

II. THE LECTURE COURSE.

In accordance with these arrangements the thirty-first annual course of instruction will commence on Friday, October 1st, 1880, and continue until the last Tuesday in June, 1881, with a recess during the holidays, and will consist of the following lectures and exercises:

SUBJECTS.	Number of Courses required.	Number of Lectures in each Course.	Number of Lectures necessary to be attended.	REMARKS.
Anatomy—Descriptive	2	90	180	Delivered in Anatomical Amphitheatre.
Anatomy—Practical.....	.....	.....	.....	In which all the anatomical structures are to be worked out by each Student, requiring from 10 to 12 weeks of afternoon work in the dissecting-rooms, besides class reviews by examinations.
Physiology	2	40	80	Didactic Lectures in Amphitheatre, with Illustrations.
General Pathology.....	2	20	40	In General Lecture-room.
Histology, with practical use of Microscope, Mounting, etc.....	.....	.....	.....	In sections in the Physiological Laboratory, consisting of fifteen lessons of afternoon work. (Elective.)
Pathological Anatomy.....	1	20	20	In Amphitheatre, with Illustrations.
General Chemistry.....	2	48	96	In General Lecture-room, with Illustrations.
Chemical Analysis.....	.....	.....	.....	Requiring six weeks of aftern on work in the Chemical Laboratory. (Required.)
Analysis of Urine, etc.....	.....	.....	.....	Requiring six weeks of afternoon work in the Chemical Laboratory. (Required.)
An Extended Course in Analyses and Toxicology...	.....	.....	.....	Continuing through a college year in Laboratory. (Optional.)
Botany, Zoölogy and Physics .....	.....	.....	.....	Instruction given in the Department of Literature, Science and Arts. (Optional.)
Materia Medica and Therapeutics.....	2	60	120	In General Lecture-room.
Electro-Therapeutics.....	.....	.....	.....	Twelve lessons—practice with Instruments in Laboratory. (Elective.)
Physical Diagnosis.....	2	16	32	In General Lecture-room, supplemented in the Hospital.
Obstetrics.....	2	60	120	In General Lecture-room.
Diseases of Women and Children.....	2	45	90	In General Lecture-room.
Clinical Gynæcology and Diseases of Children.....	1	72	72	In Hospital Amphitheatre.
Ophthalmology and Otology	1	24	24	In General Lecture-room.
Eye and Ear Clinic.....	1	72	72	In Hospital Amphitheatre, at regular forenoon hours.
Clinical Ophthalmology at irregular hours.....	1	128	128	In Hospital with sections of the class. (Optional.)
Systematic Surgery.....	2	80	160	In General Lecture-room.
Clinical Surgery.....	1	72	72	At regular forenoon hours in Hospital Amphitheatre.
Clinical Surgery, often shorter lessons.....	1	128	128	In Hospital Amphitheatre, at mid-day. (Optional.)
Practice of Medicine Systematic.....	2	90	180	In General Lecture-room.
Clinical Medicine.....	1	72	72	In Hospital Amphitheatre, at regular forenoon hours.
Clinical Medicine in afternoon.....	1	72	72	In Hospital Amphitheatre. (Optional.)

The course of instruction will be so arranged in the time of delivering the lectures, that for the most part, the more elementary subjects will be presented before the student proceeds to those more advanced, so as to secure as far as practicable an orderly succession of studies; while the more fundamental subjects will, during the course in the college, be repeated, so as to secure a more perfect comprehension and a clearer understanding of their principles and relations, and to fix the facts more firmly in the mind. The hours of the lectures, that are required, will be so arranged (four being given each day) that no two will be delivered at the same time, and every facility will be afforded for students to attend upon the repetition of the lectures as often as may be thought profitable. The Faculty recognize what is evident in the experience of all medical students, that the listening to lectures on the same subject a second time, after other related branches have been studied, is much more interesting and profitable than the first; and hence they require attendance upon lectures on all the leading subjects more than once.

The students are examined often upon the subjects of the lectures in progress, either by the professors or their assistants, and these examinations are regarded as an important part of the teaching.

The regular Clinics are held in the Hospital Amphitheater every Wednesday and Saturday for Medical, Surgical, Gynæcological and Ophthalmological cases, at which time examinations are made, prescriptions given and surgical operations performed, gratuitously to patients, in the presence of the class.

III. TERMS OF ADMISSION.

Every candidate for admission to the Department of Medicine and Surgery must be eighteen years of age, and must present to the Faculty satisfactory evidence of a good moral character.

Unless already graduates or matriculates of the University or of some literary or scientific college, or graduates or advanced members of some academy or high school, or unless holding certificates from some public school board of being

properly qualified as teachers, or unless having certificates based upon an examination by some regular medical society of being properly qualified to engage in the study of medicine, all candidates must be examined as to their elementary education and their fitness to enter the college and pursue properly and profitably the technical study of medicine. The examination will be in writing and will include an account of the candidates' educational advantages, and answers upon such questions of Arithmetic, Geography, History, Forms of Government and current events as shall show their general intelligence; and particularly will they be required to correct imperfect English, and to show their ability to express ideas correctly in writing. Since many present themselves a long time after completing their school education, the examination will not be technical, nor in the rules of school books, which are often soon forgotten, but it will be more to exhibit the results of previous training, and to indicate their present practical capacity, and their ability to appreciate the technical study of Medicine. Such an examination is believed to be quite as effectual in guarding the profession from the introduction of illiterate and unworthy members as the requirements of a limited specified amount of school-book knowledge, to be studied up for the occasion.

These preliminary requirements are not now of as high an order as it is hoped they will before long be made, but they are intended to be as exacting as is fairly practicable and consistent with the interests and rights of the profession and the people.

Examinations will be held at 2 P. M., on Wednesday and Thursday, September 29 and 30, 1880. Candidates are required to present themselves on one of these days, as they are expected to be in attendance on the first day of the term, at which time the regular course of instruction will commence. To provide for cases in which it is absolutely impossible for the candidates to be present at this time, supplementary examinations will be held at such times as may be determined upon by the Faculty, but no excuse, except of an urgent character, will be accepted for failure to appear at the first examination.

Before admission to examination every student is required to present to the Dean of the Faculty the Treasurer's receipt for the payment of the matriculation fees and annual dues. It will, therefore, be necessary for the candidates to apply first to the Steward at his office, in the University Hall, register their names as students in the department of Medicine and Surgery, and then pay their fees to the Treasurer. In case of rejection, the money paid preliminary to examination will be refunded by the Treasurer.

In answer to many inquiries, it is thought desirable more explicitly to state that no previous study of medicine is required for admission to the college, any person of proper moral character, and who possesses the above described requisite elementary education, being eligible for admission.

IV. ADMISSION OF WOMEN.

Women are admitted to this College, as to all other Departments of the University, on the same conditions that are required of men. It is proper to state, however, that the course of instruction for women, though equal in all respects to that provided for the men, is, for the most part, given separately, the two classes being together, however, in the study of Chemistry and at the public clinics, and at some other exercises, where their being together cannot be considered objectionable. Ample provision has been made for the women's classes in the way of lecture rooms, dissecting rooms, etc.

V. CONDITION OF GRADUATION.

To be admitted to the degree of Doctor of Medicine, all students must present evidence of the possession of a good moral character, of being twenty-one years of age, of having successfully pursued the study of Practical Anatomy and Practical Chemistry, and (unless the full course of study has been taken in this college) of having been engaged in the study of medicine for the period of three years, including the time spent in attendance upon lectures. They must also have passed satisfactory examinations on all the studies included in the full course of instruction, and if admitted to advanced stand-

ing in this college, they must have attended at least two full courses of medical lectures, the last of which must be at this college.

It is proper to remark that the two medical schools in this University are distinct organizations, and that, under the regulations established by the Regents, the professors in one school are not required to take any part in conducting the final examination of students in the other, or in recommending them for graduation, or in signing their diplomas.

VI. FACILITIES FOR INSTRUCTION.

The Department of Medicine and Surgery is abundantly supplied with plates, photographs, models, specimens, preparations, apparatus and instruments, for the purpose of illustrating the different studies embraced in the course. The apparatus in the Department of Chemistry and of Chemical Physics is very full and complete. Additions are made from time to time to these collections by special appropriations by the Board of Regents, so that the Faculty are able to adopt every new method of illustration, and to exhibit to the classes each year all important improvements in the way of instruments and apparatus that are employed in the practice of medicine and surgery, and to show their application.

In addition to the didactic lectures in this department, an elective course in Electro-therapeutics is open to students. The work under this head is strictly practical and is illustrated with special apparatus, at an expense to each student of one dollar.

The museums of Professors Ford and Sager, embracing several thousand specimens, which are the result of many years' labor in the collection and preparation of materials intended to aid directly in teaching, have now become the property of the University, and are used in the daily work of the classrooms. These museums contain a valuable collection of bones, illustrating healthy as well as diseased conditions, and also the various changes that occur from infancy to old age, and the processes of first and second dentition; dissections, gene-

ral and partial, of the vascular, nervous and muscular systems, both normal and abnormal; models in wax, papier maché and plaster, of various portions of the body, illustrating morbid growths, skin diseases, etc.; preparations in the comparative embryology, neurology and craniology of the vertebrata; human embryology, and anatomy and pathology of the diseases of women, etc. The collection of monstrosities, both single and double, of man and the lower animals, is one of the largest in the United States.

The department of the museum illustrative of *Materia Medica*, consists of a very complete collection of crude organic medicinal substances, finely displayed and arranged according to their order in natural history; besides about one thousand other specimens of simple mineral and vegetable substances, and pharmaceutical and officinal preparations, active principles, etc., arranged in groups convenient for study. Medicinal botany is further illustrated by several hundred large finely colored plates.

The above collections, to which additions are made yearly, are catalogued and arranged in cases. The museum thus affords a secure depository for objects of interest and value, and it is to be hoped that the alumni and other friends of the University will continue their generous donations of such materials.

Ample supplies of materials for the purposes of practical anatomy are always on hand, and special attention is given to this important study. Material for this work is furnished in abundance, at the following rates: for an upper and a lower extremity, the dissection of which is required previous to graduation, the charge is twenty dollars.

The Chemical Laboratory provides thorough instruction and suitable appliances for the practical study of all branches of medical chemistry. In each of the two branches which are *required for graduation* as Doctor of Medicine, namely: (1) Qualitative Chemistry, devoted to the study of chemical changes and incompatibilities; and (2) Analysis of Urine, applied to clinical uses and physiological study, students are taken in

class-sections of limited number, for daily drill in the classroom, with daily practice in the Laboratory. Before commencing, each class is prepared by daily recitation in chemical notation, and at the close of the work in each branch, the classes are held to an examination. The classes commence at such several times of the college year as will be announced at the opening of the same.

The average expense of such work for several years, has been fifteen dollars for the entire Laboratory course of the medical students.

By action of the Faculty of the College of Medicine and Surgery, *two extended optional courses* have been established, one in Physiological and Pathological Chemistry, and another in Toxicology. The *first* will embrace analysis of the Blood, Urine, Gastric Juice, Brain, Bile, Bone, Muscle, and other fluids and solids of the body. The *second* will embrace courses of Qualitative and Quantitative Analysis, and the special examination of foods and of the tissues and fluids of poisoned animals, for the detection of the various mineral and organic poisons. Each of these special courses, which are not required for graduation, employ about one collegiate year of Laboratory work. Students willing to devote time to *original work* in physiological chemistry or other branches, after due preparation, are given the fullest encouragement and coöperation. Also courses in Quantitative analysis, and in Pharmaceutical Preparations, are open to students of medicine who may desire such special training.

By an act of the Legislature of Michigan, a liberal appropriation for the equipment and conducting of a Physiological Laboratory has been made; and microscopes, a stereopticon, sphygmograph, and numerous other instruments for extended practical work have been procured, and are in daily use. By the coöperation of the Professors of Anatomy, Physiology and Pathology, and with efficient instructors the students of the College of Medicine and Surgery, at an expense of one dollar each, for material consumed, have opportunities of practical instruction in Experimental Physiology and Histology, both

physiological and pathological; and this, supplemented by instruction in Pathological Anatomy and Medical Chemistry, is designed to afford facilities to students for minute and specific scientific study and research exceedingly rare in this country, the want of which is deeply felt by all advanced medical practitioners.

Junior students will have an opportunity under competent instruction to study Comparative Anatomy and Physiology practically by dissecting various animals, and while thus becoming familiar with structures and tissues, they will also acquire dexterity in the use of instruments preparatory to work upon the human cadaver.

Recognizing the importance of combining clinical with didactic instruction, College Clinics have for years past been held on Wednesdays and Saturdays during the session, for Medical, Surgical and Ophthalmic patients. These are examined, prescribed for, and when necessary, operated upon before the class; and large numbers, especially of chronic cases, from this and neighboring States, have availed themselves of these privileges.

By the liberality of the Legislature of the State of Michigan, aided by the city of Ann Arbor, a Hospital has been established, and new pavilion buildings have been erected upon the University grounds, of sufficient capacity for a large number of patients. It is now thoroughly equipped and well supported, and is in immediate charge of a competent house surgeon and physician and an experienced matron. The whole is placed under the direction of the Faculty of the College whose members attend regularly (each upon such cases as come within his special department) upon the patients, and give clinical instruction in the wards to the advanced students of the College. A new and spacious clinical amphitheatre in connection with the hospital has this year been erected by the Regents, in which the clinics are held.

The Hospital is kept open for patients applying from this and other States during the whole collegiate year, the only restriction being that no contagious diseases are admitted.

The expenses to patients will be only for their board and for unusual appliances and medicines, the services of the Faculty being rendered gratuitously.

Under the present organization, patients are much better accommodated, and clinical instruction is rendered more systematic and efficient than has hitherto been possible.

Besides these aids to study, the students in medicine are allowed free access to the general botanical, zoological and geological cabinets of the University, which are estimated to contain 225,000 specimens. The General Library containing about 28,000 volumes, of which some 2,000 are medical works. A complete catalogue of the Library, arranged both by the names of authors and by subjects, is accessible to all students. The leading medical periodicals of this country and of Europe are taken and kept on file in the Library.

VII. FEES AND EXPENSES.

The fees,* which must be paid in advance are as follows :

MATRICULATION FEE.—Residents of Michigan, \$10; non-residents, \$25.

ANNUAL DUES.—Residents of Michigan, \$20; non-residents, \$25.

GRADUATION FEE.—For all alike, \$10.

For cost of dissection, see page 12.

For cost of chemical work, see page 13.

For Electro-Therapeutics, see page 11.

For Physiological Laboratory, see page 13.

The admission or matriculation fee is paid but once, and entitles the student to the privileges of permanent membership in any department of the University. The annual tax is paid at the commencement of the first and also at the beginning of each year thereafter while in attendance at the University.

There are neither dormitories nor commons connected with the University. Students obtain board and lodgings in private families, for from three to five dollars per week. Clubs are also

*No portion of the fees can be refunded to students who leave the University during the academic year, except by order of the Board of Regents.

formed, in which the cost of good board is from one and a half to two dollars and a half per week. Room rent varies from fifty cents to one dollar and a half per week for each student. The total expenses of students in the Medical Department are from \$200 to \$300 per term of nine months.

VIII. TEXT AND REFERENCE BOOKS.

Any of the following text-books in each department will answer the necessities of the student; and wherever a preference exists, it is given to those first in order on the list:

ANATOMY.—Gray, Wilson, Leidy, Darling.

HISTOLOGY.—Frey's Compendium of Histology; Stricker.

PHYSIOLOGY.—Dalton, Flint, Foster. *For Reference*—Küss, Kirke, Carpenter, Sanderson's Handbook for the Physiological Laboratory, Foster and Langley's Practical Physiology.

CHEMISTRY.—*In General Chemistry.*—Miller's Chemical Physics, Miller's Inorganic Chemistry, or Eliot and Storer's Manual of Chemistry. *For Laboratory.*—Douglas and Prescott's Analysis, Vaughan's Physiological Chemistry, Wormley on Poisons.

MATERIA MEDICA AND THERAPEUTICS.—H. C. Wood, Jr., Stillé, Waring, Ringer. *Special Subjects*—Headland on the Action of Medicines, Anstie on Stimulants and Narcotics.

PATHOLOGY AND PATHOLOGICAL ANATOMY.—Green, Wagner, Paget, Williams's Principles. *For Reference.*—Rokitansky and Virchow.

OBSTETRICS.—Playfair, Leishman, Byford. *For Reference.*—Schroeder, Cazeaux, Hodge. *Special Subjects.*—Tanner on Pregnancy, Barnes on Obstetric Operations, Elliott's Obstetric Clinics, Baker on Puerperal Diseases.

DISEASES OF WOMEN.—Thomas, Emmet, Byford, Barnes. *Special Subjects.*—Tilt on Uterine Therapeutics, Klob on Pathological Anatomy of the Female Sexual Organs, Peaslee on Ovariectomy, Sims on Uterine Surgery, Emmet on Vesico-Vaginal Fistula, Skene on Diseases of the Bladder and Urethra.

DISEASES OF CHILDREN.—J. L. Smith, Vogel, Tanner, Meigs and Pepper. *Special Subjects.*—Eustace Smith on the Wasting Diseases of Infancy and Childhood, Combe on the Management of Infancy, Routh on Infant Feeding, Holmes or Guersant on the Surgical Diseases of Children.

PRACTICE OF MEDICINE.—Flint, Bristowe, Niemeyer, Roberts, Watson. *Special Subjects and for Reference.*—Williams and Lebert on Con-

sumption, Murchison on the Liver, Da Costa on Medical Diagnosis, Loomis on Physical Diagnosis, Aitkins Practice, Reynold's System of Medicine, Ziemssens' Cyclopedia.

SURGERY.—Syme, edited by Maclean, Erichsen, Hamilton, Druitt. *Special Subjects.*—Billroth on Surgical Pathology, Hamilton on Fractures and Dislocations, Bumstead on Venereal Diseases, Sayre on Club Foot, Sir Henry Thompson or Gouley on Genito-Urinary Organs. C. Henri Leonard on Bandaging. *In Minor Surgery and Surgical Appliances.*—Bell, Le Gros Clarke, Anandale, Wales, Sargent. *For Reference.*—Gross's System of Surgery, Holmes's System of Surgery.

OPHTHALMOLOGY AND OTOTOLOGY.—*On the Eye*—Scelberg Wells, Carter, Schweigger, Stellwag, Metz, Brown on the Ophthalmoscope. *On the Ear.*—Roosa, Toynbee with Hinton's Supplement, Burnett's Treatise on the Ear.

The student, who is commencing a course of reading without an instructor, is recommended to devote the most of his time for the first year to the elementary branches, Anatomy, Physiology, and Chemistry, both general and medical; and advancing to the other studies to select one of the first mentioned text-books in each department, passing to the "*special subjects*" only when near the completion of the course, or as he may desire for particular reasons to become more fully informed on such subjects. The books mentioned are standard authorities, and will form a good nucleus for a medical library.

IX. ASSIGNMENT OF SEATS.

Students on arriving in Ann Arbor can obtain the necessary information in regard to rooms, board, etc., by calling at the Steward's office. Seats in the Lecture rooms are assigned by selection to students in the order of registration on the Treasurer's books, and each student is expected to occupy during the session such seat as may be assigned to him. In the clinical lectures the graduating class, by courtesy, are allowed the privilege of the seats nearest the operating table and lecture desk.

Letters of inquiry may be addressed to the "Dean of the Faculty of the Department of Medicine and Surgery," Ann Arbor, Michigan.

By comparing the present provisions with those of former years it will be seen that very great advancements have been made in the means offered for a complete and thorough medical education. The plan of the nine months' session and three years' graded course in medical schools in this country, inaugurated by Harvard College, has been followed by the venerable University of Pennsylvania in a graded course, but without extension of the length of the sessions; and it is a cause of congratulation that this extension of the course in the University of Michigan, long since recommended by the Faculty, and more recently by the Alumni of this College, and others of the medical profession of the State, has at length been accomplished. The great importance of this movement must be evident to all who appreciate the vast extension of medical science, which has occurred since medical schools were established among us with four months' terms, or who compare the short courses prevalent in this country with those so much longer in Europe. The great fault with many American medical students is a desire to rush speedily over their course of study and enter, though but partially prepared, into the responsible duties of active practice. It is found, however, by the increase in the size of our classes since the extension of the term of instruction has been effected, that there are already many, and it is hoped that the number will increase, who desire more thorough and extended preparation, and that since by the liberality of the State the means of securing this thorough training are put within their reach, still more who have talent, energy, perseverance and high aims, will avail themselves of the increased advantages offered.

In the plan of the extended course provided, and which we are sure it will be for the interest of every medical student to take, the attempt has been made so to combine a successive or graded course of study with reviews by repetition of the more important lectures, as to obviate the serious objection of dismissing one part of a connected subject before its relations to other parts can be seen and appreciated, and to avoid also the confusion incident to the presentation of so many parts of the

general subject to the mind of the student at the same time and at an early period of his studies.

This extended course affords time for the teaching and study of subjects not generally, or but very imperfectly, taught in our medical schools ; and especially will it give more time for thorough work in the Laboratories now provided. Though not fully supplying the defects of preliminary education, this longer course, accompanied with repeated examinations and written exercises, will supplement the deficiencies of earlier training, and of itself will be a most efficient means of mental discipline, and of literary as well as scientific culture.

This plan which has been adopted with a view of avoiding the impracticable, and of securing real and decided advancement, is presented in the hope that it will commend itself to the judgment and support of the profession. Upon the members of the profession who have encouraged such advancements by repeated recommendations, the schools making such improvements should be able to depend for more substantial encouragement than mere advice. Should physicians while professing a desire for reform, send the students whom they control to schools where diplomas are soonest and most easily obtained, the cause of advanced medical education must suffer. Upon their consistency and practical efforts for reform, the success of these experiments must depend.

Should students be ready to commence the study of medicine near the opening of the term in October, it is advised that they enter the college at once and remain during their three years of pupilage—the instruction in the graded course being adapted to beginners. Should it be convenient to commence medical studies at a period distant from the beginning of the college year, they should procure one of the text-books in Anatomy (Gray's), in Physiology, in Chemistry, and perhaps in General Pathology and Materia Medica, and a *Medical Dictionary*. A study of such works, even without a preceptor, will afford some general acquaintance with these fundamental subjects, and will, at least, give a knowledge of *terms* which will be of service in more readily comprehending the lectures.

GRADUATES OF 1880.

N. William Andrews,
Charles Anson Babcock,
Frank Dymond Baker,
Fred. Baker,
Jose Celso Barbosa,
William Thomas Batterson,
James Addison Beebe,
Ralph Palmer Beebe,
Ebenezer O. Bennett,
Strong Mosher Bennett,
Harlan Jackson Brown,
Ralph Alton Brown,
Donald W. Campbell,
John Luther Campbell,
William Pitt Carpender,
William Bayard Carroll,
Thirza Ellen Clark,
Granville James Coller,
Samuel LeCount Cook,
Edward Clinton Davisson,
Sarah Johnson Dean,
David Noble De Tarr,
Chalmers McCall Dickson,
M. V. Covey Doane,
Will T. Dodge,
Henry Mitchell Downs,
Frances A. Drew,
Reuben Allen Dunkelberg,
Orville Steinberg Ensign,
Charles Augustus Entrup,

Mary Catherine Evans,
Nellie Wheeler Fairfield,
John Campbell Fleming,
Charles Tilson Fox,
Bradford S. Galloway,
Francis Graham Gardiner,
Mason Wilber Gray,
E. Josephus Groner,
Albert Adams Hallock,
Emily A. Hammond,
Isaac Marion Harrison,
Orren Barnum Hayden,
James Daniel Hillis,
Mary Ann Holbrook,
Timothy Lewis Holland,
William Jilson Huff,
Martha Paul Hughes,
Francis Sidney Hull,
Louis Fillmore Ingersoll,
John Serbert Johnson,
Frank C. Jones,
Sarah Fell Kenfield,
Vierling Kersey,
Rufus Robert Kime,
Morris C. L. Kitchen,
Orson Ford Lewis,
George A. Marietta,
Willis Willard Mather,
George Barclay McCollum,
Walter Stevens Morden,

Patrick Eugene Nagle,
John O'Hearn,
Bethena Angelina Owens,
J. Harris Oxner,
Edgar Allen Peck,
Theodore Calvin Peterson,
Alvan J. Rosenberry,
Gerry Weedon Ross,
Elizabeth Stafford Samm,
Fred. Schermerhorn,
Perry Schoonmaker,
Albert E. Schimmel,
Robert Stevenson,
Thomas John Sullivan,
Celia Williams Taylor,

Charles A. Terhune,
John Edmund Totten,
Frank Albert Towsley,
Frank Vandawarker,
John Vander Laan,
Hiram Walter,
Griffy Benjamin Ward,
Prudence Bell Warner,
David Eaton Webster,
Allen Sidney Whetstone,
George John White,
William Reid Whitelaw,
Henry V. Wildman,
Anna Mary Wilkin,
Pierce E. Witherspoon,

Harvey H. Ziegler.

STUDENTS.

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David Muirehead Angus,	<i>Morefield, Ont.,</i>	R. E. Clapp.
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William Henry Aylsworth,	<i>Leoni,</i>	Faculty.
Charles Anson Babcock,	<i>Ann Arbor,</i>	H. S. Taft.
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Charles Emmet Bailey,	<i>Northfield,</i>	Faculty.
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Arthur D. Bangham,	<i>Marshall,</i>	J. F. Smiley.
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College of Porto Rico.		
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Sarah A. Beardsley,	<i>Clintonville, N. Y.,</i>	F. J. Dangnon.
Isaac Lewis Beatty,	<i>Summum, Ill.,</i>	Faculty.
James Addison Beebe,	<i>Ann Arbor,</i>	Faculty.
Ralph Palmer Beebe,	<i>Odessa, N. Y.,</i>	B. T. Smelzer.
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Robert Blanchard Bell,	<i>Howell,</i>	W. L. Wells,
Ebenezer O. Bennett,	<i>Ann Arbor,</i>	A. Collar.
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Edward Clinton Davisson,	<i>West Manchester, O.,</i>	Faculty.
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Robert Arnold Packwood,	St. George, Bermuda,	Faculty.
Margaret Emily Pagelson.	Grand Haven,	Faculty.
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Ary Bryant Smith,	<i>Birmingham,</i>	Faculty.
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NAME.	RESIDENCE.	PRECEPTOR.
Frank Vandawarker,	<i>Ann Arbor,</i>	Faculty.
John Vander Laan,	<i>Muskegon,</i>	J. M. Cook.
Edward F. Van De Venter,	<i>Sturgis,</i>	Faculty.
Frank Willis Vance,	<i>Erie, Pa.,</i>	Faculty.
James Vercoe,	<i>Seaforth, Ont.,</i>	H. L. Vercoe.
Fred. William Vincent,	<i>Corvallis, Oregon,</i>	J. C. Grubbs.
William Wakefield,	<i>Cornish, Minn.,</i>	C. Berry.
John Anderson Walser,	<i>Vera Cruz,</i>	J. D. Fitzpatrick.
Hiram Walter,	<i>Eaton Rapids,</i>	S. M. Wilkins.
Griffy Benjamin Ward,	<i>Fairbank, Ia.,</i>	A. B. Ward.
Walter E. Ward,	<i>Laingsburg,</i>	E. B. Ward.
Prudence Bell Warner,	<i>Battle Creek,</i>	J. H. Kellogg.
James Swaze Watson,	<i>Blackberry Station, Ill.,</i>	O. L. Pelton.
Joseph Benjamin Waynick,	<i>Chariton, Ia.,</i>	J. W. Culley.
David Eaton Webster,	<i>Larwill, Ind.,</i>	C. Souder.
John Elmer Weeks,	<i>Corry, Penn.,</i>	F. F. Davis.
Martin Weller,	<i>Saint Johns,</i>	Faculty.
Willard Miles Weller,	<i>Lyons Mills,</i>	Faculty.
Allen Sidney Whetstone,	<i>Kansas City, Mo.,</i>	Practitioner.
George John White,	<i>Jackson,</i>	W. A. C. Williams.
John Edmunds White,	<i>Bedford Centre,</i>	B. L. Hovey.
William Reid Whitelaw,	<i>Portage, Wis.,</i>	Faculty.
Victor Emanuel Widenman,	<i>Whitmore Lake,</i>	Faculty.
Walter Wilbur, B. A.,	<i>Salina, Ont.,</i>	Faculty.
Albert College.		
Henry Valentine Wildman,	<i>London, England,</i>	Faculty.
Anna M. Wilkin,	<i>Elmira, N. Y.,</i>	Faculty.
Frank C. Williams,	<i>Mexico, N. Y.,</i>	J. U. Manwarm.
Herbert James Williams,	<i>Quincy,</i>	J. A. Williams.
James D. Wilson,	<i>Ann Arbor,</i>	Faculty.
Pierce De E. Witherspoon,	<i>Darlington, Penn.,</i>	Sawyer & Strous.
Stanley Woodruff,	<i>Norwalk, O.,</i>	S. H. Sturgeon.
Frederick Elijah Woolsey,	<i>Hanover,</i>	J. A. Wilson.
Edward Darius Worcester,	<i>Roscoe, Ill.,</i>	G. P. & W. L. Ransom.
Austin Charles Wright,	<i>Casnovia,</i>	C. E. Koon.
James Ney Wright,	<i>Johnstown, O.</i>	T. J. Williams.
Wm. Thomas Wright, B. A.,	<i>Denison Ia.,</i>	Faculty.
Kenyon College.		
Frank Asbury Wygan,	<i>Cohocton, N. Y.,</i>	L. B. Healy.
Edgar Garrison Young,	<i>Ann Arbor,</i>	Faculty.
William Edward Young,	<i>Bear Island, N Brunswick,</i>	Faculty.
Henry H. Ziegler,	<i>Wauseon, O.,</i>	Faculty.

THE ASSOCIATION OF AMERICAN MEDICAL COLLEGES.

At a meeting held in Chicago, June 2 and 4, 1877, of representatives from various medical colleges of the country, a permanent organization was formed under the above title, and a Constitution, By-Laws, and Articles of Confederation were adopted, Article IX of the Constitution requires that all colleges belonging to the association shall publish the "Articles of Confederation" in their annual catalogue for at least three consecutive years after joining the association. In accordance with this requirement we give below

THE ARTICLES OF CONFEDERATION

[To be subscribed and conformed to by all the Colleges of the Confederation.]

ARTICLE I. OF THE FACULTY.

The medical members of the Faculty must be regular graduates or licentiates and practitioners of medicine, in good standing, using the word "regular" in the sense commonly understood in the medical profession.

ARTICLE II. OF TUITION.

SECTION 1. The scheme of tuition shall provide for a yearly systematic course of instruction covering the general topics of Anatomy, including Dissections, Physiology, Chemistry, Materia Medica and Therapeutics, Obstetrics, Surgery, Pathology, and Practice of Medicine. The collegiate session, wherein this course is given, shall be understood as the "regular" session.

SECTION 2. Said Regular Session shall not be less than twenty weeks in duration. This section to go in force at and after the session of 1879-80.

SECTION 3. Not more than one regular session, counting the regular session as one of the two courses of instruction required for graduation, shall be held in the same year.

ARTICLE III. REQUIREMENTS FOR GRADUATION.

No person whether a graduate in medicine or not, shall be given a Diploma of "Doctor of Medicine" who shall not have fulfilled the following requirements, except as hereinafter provided for in Article IV.

1. He must produce satisfactory evidence of good moral character, and of having attained the age of twenty-one years.

2. He must file a satisfactory certificate of having studied medicine for at least three years under a regular graduate or licentiate and practitioner of medicine, in good standing, using the word regular in the sense commonly understood in the medical profession. No candidate shall be eligible for final examination for graduation,

unless his term of three years study shall have been completed, or shall expire at a date not later than three months after the close of the final examinations: this clause to take effect at and after the session of 1879-80.

3. He must file the proper official evidence that, during the above mentioned three years, he has matriculated at some affiliated college or colleges, for two regular sessions and in the course of the same (except as provided in 4) has attended two full courses of instruction on the seven topics mentioned in Article II. But the latter, at least, of the two full courses must have been attended at the college issuing the diploma. No two-consecutive courses of instruction shall be held as satisfying the above requirements unless the time between the beginning of the first course and the end of the second is greater than fifteen months.

4. In case a college shall adopt a systematic graduated scheme of tuition, attendance on the whole of the same shall be equivalent to the requirements mentioned in 3, *provided*, such scheme includes instruction in the seven topics mentioned in Article II, and requires attendance of at least two yearly regular collegiate sessions of not less than twenty weeks' duration each.

5. The candidate must have passed a personal examination before the Faculty on all seven of the branches of medicine mentioned in Article II.

6. He must have paid in full all college dues, including the graduation fee.

ARTICLE IV. OF HONORARY DEGREES.

An honorary degree of "Doctor of Medicine" may be granted in numbers not exceeding one yearly, to distinguished physicians or scientific men of over forty years of age. But in such cases the diploma shall bear across its face the word "Honorary," in conspicuous characters and the same word shall always be appended to the name of the recipient in all lists of graduates.

ARTICLE V. OF FEES.

SECTION 1. All fees shall be paid in lawful money, and no promissory notes or promises to pay shall be accepted in lieu of cash for payment of fees.

SECTION 2. No ticket or other certificate of attendance upon college exercises shall be issued to any student until the dues for the same shall be paid.

SECTION 3. The established fees for the exercises of the regular session, except the matriculation fee, graduation fee, fee for dissection, may be reduced not more than one half to graduates of other affiliated colleges of less than three years' standing, and to undergraduates of the same who have already attended two full courses of the instruction of the regular session.

SECTION 4. The same fees may be remitted altogether to a college's own alumni, to graduates of other affiliated colleges of three years' standing—the three years dating from the time of graduation, and ending at the close of the regular session for which the tickets are given—to undergraduates who have already attended two full courses of the instruction of the regular session, the latter of which, at least, shall have been in the college making the remission, and to theological students, when not candidates for a diploma.

SECTION 5. The same fees may be reduced or remitted to deserving indigent students to a number not exceeding five per cent. of the number of matriculants at the previous regular session of the college.

SECTION 6. Under no circumstances whatever, other than the above, shall the Faculties, or any member of the same, grant, *upon their own authority*, any remission or reduction of established fees. And it is distinctly understood and agreed that the Faculties will discountenance and oppose the authorizing by governing Boards of the admission of individual students upon other than the regularly established charges for their grade.

SECTION 7. Remission or reduction of fees for other exercises than those of the regular session, return to a student of any moneys after payment of fees, or an appropriation of funds of the college for payment of any student's fees, or part thereof, shall be deemed violations of the provisions of the article in regard to remission or reduction of fees.

ARTICLE VI. OF RECOGNITION OF OTHER COLLEGES.

No college shall admit to the privileges accorded in Articles III and V the students or graduates of any college which, during any period of the student's or graduate's pupilage shall have been excluded from the list of affiliated colleges recognized by the Association.

ARTICLE VII. AMENDMENTS.

Amendments to these articles shall be proposed and adopted in the manner prescribed for amendments to the Constitution.

Additional Section to Article VII of the By-Laws: Every college member and every affiliated college shall print each year a true list of the matriculants of the college for the year, and their preceptors or the names of the colleges at which the matriculants have graduated, in the cases of those matriculants who are graduates in medicine, and every such college shall also print a true list of the graduates.

Jefferson Medical College; Medical Department of University of Louisville; Hospital College of Medicine of Louisville; Medical Department University of Iowa; Chicago Medical College; Medical Department University of Wooster; Detroit Medical College; Cleveland Medical College; Starling Medical College; Medical Department Universities of Nashville and Vanderbilt; Missouri Medical College; Kansas City College of Physicians and Surgeons; Miami Medical College; Louisville Medical College; MEDICAL DEPARTMENT MICHIGAN UNIVERSITY; Medical Department University of Louisiana; Rush Medical College; Woman's Medical College of Chicago; Texas Medical College and Hospital; Alabama Medical College; Ohio Medical College; Medical College State of South Carolina; Columbus Medical College; Medical College of Evansville; Atlanta Medical College; Kentucky School of Medicine; Cincinnati College of Medicine and Surgery; Medical College of Indiana; Nashville Medical College; Savannah Medical College; St. Joseph Hospital Medical College.